

What is claimed is:

- 1 1. A system for providing diagnosis and monitoring of congestive
2 heart failure for use in automated patient care, comprising:
 - 3 a comparison module comparing at least one recorded physiological
4 measure to at least one other recorded physiological measure on a substantially
5 regular basis to quantify a change in patient pathophysiological status for
6 equivalent patient information; and
7 an analysis module evaluating an absence, an onset, a progression, a
8 regression, and a status quo of congestive heart failure dependent upon the change
9 in patient pathophysiological status.
- 1 2. A system according to Claim 1, further comprising:
 - 2 a diagnostic module comparing the change in patient pathophysiological
3 status to an indicator threshold corresponding to a quantifiable physiological
4 measure indicative of congestive heart failure.
- 1 3. A system according to Claim 1, further comprising:
 - 2 a database module retrieving the at least one recorded physiological
3 measure and the at least one other recorded physiological measure from
4 monitoring sets stored in a database.
- 1 4. A system according to Claim 3, further comprising:
 - 2 a server system collecting the at least one recorded physiological measure
3 and the at least one other recorded physiological measure into each monitoring set
4 recorded on a substantially continuous basis or derived therefrom.
- 1 5. A system according to Claim 4, further comprising:
 - 2 at least one of an implantable medical device and an external medical
3 device recording the at least one recorded physiological measure and the at least
4 one other recorded physiological measure.
- 1 6. A system according to Claim 1, further comprising:

the analysis module evaluating an absence, an onset, a progression, a regression, and a status quo of diseases other than congestive heart failure dependent upon the change in patient pathophysiological status.

1 7. A system according to Claim 1, further comprising:

2 a diagnostic module comparing at least one recorded quality of life
3 measure to at least one other recorded quality of life measure on a substantially
4 regular basis to qualify a change in patient pathophysiological status.

1 8. A system according to Claim 1, further comprising:

2 a stored stickiness indicator defined for at least one physiological measure
3 corresponding to a temporal boundary on one of patient diagnosis and treatment;
4 a diagnostic module timing each change in patient pathophysiological
5 status for the equivalent patient information and determining one of a revised
6 patient diagnosis and treatment responsive to each change in patient
7 pathophysiological status with a timing exceeding the stickiness indicator.

1 9. A system according to Claim 1, further comprising:

2 a diagnostic module comparing the change in patient pathophysiological
3 status to a reference baseline comprising recorded physiological measures
4 recorded during an initial time period.

1 10. A system according to Claim 1, further comprising:

2 a diagnostic module comparing the change in patient pathophysiological
3 status to equivalent patient information from at least one of an individual patient,
4 a peer group, and a overall patient population.

1 11. A method for providing diagnosis and monitoring of congestive
2 heart failure for use in automated patient care, comprising:

3 comparing at least one recorded physiological measure to at least one
4 other recorded physiological measure on a substantially regular basis to quan
5 change in patient pathophysiological status for equivalent patient information

evaluating an absence, an onset, a progression, a regression, and a status quo of congestive heart failure dependent upon the change in patient pathophysiological status.

1 12. A method according to Claim 11, further comprising:
2 comparing the change in patient pathophysiological status to an indicator
3 threshold corresponding to a quantifiable physiological measure indicative of
4 congestive heart failure.

1 13. A method according to Claim 11, further comprising:
2 retrieving the at least one recorded physiological measure and the at least
3 one other recorded physiological measure from monitoring sets stored in a
4 database.
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1 14. A method according to Claim 13, further comprising:
2 collecting the at least one recorded physiological measure and the at least
3 one other recorded physiological measure into each monitoring set recorded on a
4 substantially continuous basis or derived therefrom.

1 15. A method according to Claim 14, further comprising:
2 recording the at least one recorded physiological measure and the at least
3 one other recorded physiological measure with at least one of an implantable
4 medical device and an external medical device.

1 16. A method according to Claim 11, further comprising:
2 evaluating an absence, an onset, a progression, a regression, and a status
3 quo of diseases other than congestive heart failure dependent upon the change in
4 patient pathophysiological status.

1 17. A method according to Claim 11, further comprising:
2 comparing at least one recorded quality of life measure to at least one
3 other recorded quality of life measure on a substantially regular basis to qualify a
4 change in patient pathophysiological status.

1 18. A method according to Claim 11, further comprising:
2 defining a stickiness indicator for at least one physiological measure
3 corresponding to a temporal boundary on one of patient diagnosis and treatment;
4 timing each change in patient pathophysiological status for the equivalent
5 patient information; and
6 determining one of a revised patient diagnosis and treatment responsive to
7 each change in patient pathophysiological status with a timing exceeding the
8 stickiness indicator.

1 19. A method according to Claim 11, further comprising:
2 comparing the change in patient pathophysiological status to a reference
3 baseline comprising recorded physiological measures recorded during an initial
4 time period.

1 20. A method according to Claim 11, further comprising:
2 comparing the change in patient pathophysiological status to equivalent
3 patient information from at least one of an individual patient, a peer group, and a
4 overall patient population.

1 21. A computer-readable storage medium for a device holding code for
2 performing the method according to Claims 11, 12, 13, 14, 15, 16, 17, 18, 19, or
3 20.

1 22. A system for analyzing a patient status for congestive heart failure
2 for use in automated patient care, comprising:
3 a server system ^{for} receiving a set of one or more physiological measures
4 relating to patient information recorded on a substantially continuous basis or
5 derived therefrom;
6 a database module storing the physiological measures set into a patient
7 care record for an individual patient into a database; and

8 an analyzer analyzing one or more of the physiological measures in the
9 physiological measures set relative to one or more other physiological measures
10 to determine a pathophysiology indicating an absence, an onset, a progression, a
11 regression, and a status quo of congestive heart failure.

1 23. A system according to Claim 22, further comprising:
2 the analyzer analyzing the physiological measures in the physiological
3 measures set relative to the other physiological measures to determine a
4 pathophysiology indicating an absence, an onset, a progression, a regression, and
5 a status quo of diseases other than congestive heart failure.

1 24. A system according to Claim 22, further comprising:
2 the server system receiving a set of one or more quality of life measures
3 relating to patient information recorded on a substantially continuous basis or
4 derived therefrom;
5 the database module storing the quality of life measures set into the patient
6 care record for the individual patient into the database; and
7 the analyzer analyzing the quality of life measures in the physiological
8 measures set relative to the other quality of life measures to determine a
9 pathophysiology indicating an absence, an onset, a progression, a regression, and
10 a status quo of congestive heart failure.

1 25. A system according to Claim 22, further comprising:
2 the server system receiving a set of one or more baseline physiological
3 measures relating to patient information recorded during an initial time period or
4 derived therefrom;
5 the database module storing the baseline physiological measures set into
6 the patient care record for the individual patient into the database; and
7 the analyzer analyzing the physiological measures in the physiological
8 measures set relative to the baseline physiological measures to determine a

9 pathophysiology indicating an absence, an onset, a progression, a regression, and
10 a status quo of congestive heart failure.

1 26. A system according to Claim 22, further comprising:
2 a comparison module retrieving the other physiological measures from
3 measures sets for at least one of an individual patient, a peer group, and a overall
4 patient population.

1 27. A method for analyzing a patient status for congestive heart failure
2 for use in automated patient care, comprising:
3 receiving a set of one or more physiological measures relating to patient
4 information recorded on a substantially continuous basis or derived therefrom;
5 storing the physiological measures set into a patient care record for an
6 individual patient into a database; and
7 analyzing one or more of the physiological measures in the physiological
8 measures set relative to one or more other physiological measures to determine a
9 pathophysiology indicating an absence, an onset, a progression, a regression, and
10 a status quo of congestive heart failure.

1 28. A method according to Claim 27, further comprising:
2 analyzing the physiological measures in the physiological measures set
3 relative to the other physiological measures to determine a pathophysiology
4 indicating an absence, an onset, a progression, a regression, and a status quo of
5 diseases other than congestive heart failure.

1 29. A method according to Claim 27, further comprising:
2 receiving a set of one or more quality of life measures relating to patient
3 information recorded on a substantially continuous basis or derived therefrom;
4 storing the quality of life measures set into the patient care record for the
5 individual patient into the database; and
6 analyzing the quality of life measures in the physiological measures set
7 relative to the other quality of life measures to determine a pathophysiology

8 indicating an absence, an onset, a progression, a regression, and a status quo of
9 congestive heart failure.

1 30. A method according to Claim 27, further comprising:
2 receiving a set of one or more baseline physiological measures relating to
3 patient information recorded during an initial time period or derived therefrom;
4 storing the baseline physiological measures set into the patient care record
5 for the individual patient into the database; and
6 analyzing the physiological measures in the physiological measures set
7 relative to the baseline physiological measures to determine a pathophysiology
8 indicating an absence, an onset, a progression, a regression, and a status quo of
9 congestive heart failure.

1 31. A method according to Claim 27, further comprising:
2 retrieving the other physiological measures from measures sets for at least
3 one of an individual patient, a peer group, and a overall patient population.

1 32. A computer-readable storage medium for a device holding code for
2 performing the method according to Claims 27, 28, 29, 30, or 31.